

WHAT IS CLAIMED IS:

1. A process for the production of molded parts, blocks and cylinders, comprising:

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- (1) adding and uniformly distributing

- b) a liquid binder containing reactive NCO groups and based on a mixture and/or reaction product of:

- i) aromatic and/or aliphatic polyisocyanates,
and

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- ii) polyols,

to

- a) production residues from polyurethane rigid foam production and/or post-consumer parts based on polyurethane rigid foam,

- (2) adding the mixture from (1) to a tool,

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- (3) introducing steam, optionally under pressure, into the tool for the production of the molded part, block or cylinder,

- (4) hardening the product,

and

- (5) removing the resultant molded part, block or cylinder from the tool,

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wherein a) said polyurethane rigid foam comprises an open-cell foam with a density of 5 to 50 kg/m³ (measured according to DIN 53 420), a compressive strength of 0.05 to 0.2 Mpa (measured according to DIN 53 421) and an open cell content of more than 50% (determined according to DIN ISO 4590-86).

2. The process of Claim 1, wherein (a) said post-consumer parts are communitied.

3. The process of Claim 1, wherein the average particle size of the rigid foam materials is from 1 to 80 mm.

4. The process of Claim 1, wherein b) said liquid binder is present in an amount of from 5 to 25% by weight, based on 100% by weight of the rigid foam a).
5. The process of Claim 1, wherein the steam introduced in step (3) is at a temperature of 105 to 140°C.
6. The process of Claim 2, wherein (d) hardening of the product occurs for 1 to 60 minutes.
7. The process of Claim 1, wherein the resultant molded part, block or cylinder has a density of from 40 to 200 kg/m³.